



PTO/SB/332 (03-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1

of 12

Application Number	10/773,777
Filing Date	Feb. 6, 2004
First Named Inventor	Anand P. Narayan
Art Unit	
Examiner Name	
Attorney Docket Number	TCOM-0006

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (1A-2007)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/EB/ ↓		US-4088955	05-09-1978	Baghdady	
		US-4309769	01-05-1982	Taylor, Jr.	
		US-4359738	11-16-1982	Lewis	
		US-4665401	05-12-1987	Garrard et al.	
		US-4670885	06-02-1987	Parl et al.	
		US-4780885	10-25-1988	Paul et al.	
		US-4856025	10-08-1989	Takai	
		US-4893316	01-09-1990	Janc et al.	
		US-4922506	05-01-1990	McCallister et al.	
		US-4933639	06-12-1990	Barker	
		US-4965732	10-23-1990	Roy III et al.	
		US-5017929	05-21-1991	Tsuda	
		US-5099493	05-24-1992	Zeger et al.	
		US-5105435	04-14-1992	Stilwell	
		US-5109390	04-28-1992	Gilhousen et al.	
		US-5119401	06-02-1992	Tsujimoto	
		US-5136296	04-04-1992	Roettger et al.	
		US-5151919	09-29-1992	Dent	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document Country Code ⁵ and Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/EB/		EP 0558910 A1	01-25-1993	Blaupunkt-Werke GmbH	
/EB/		EP 0610989 A2	01-31-1994	Phillips Patentverwaltung GmbH	
/EB/		JP2000-13360A	01-14-2000	NEC Corp.	
/EB/		DE 4201439 A1	07-22-1993	Daimler-Benz	
/EB/		DE 4326843 A1	02-16-1995	Richard Hirschmann GmbH & Co	

Examiner Signature	/Emmanuel Bayard/ (04/10/2007)	Date Considered	
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Sheet 12

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 Attorney Docket Number **TCOM-0006**

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/EB/ ↓ /EB/		US- 5218359	06-08-1993	Minamisono	
		US- 5218619	06-08-1993	Dent	
		US- 5220687	06-05-1993	Ichikawa et al.	
		US- 5224122	06-29-1993	Bruckert	
		US- 5237586	08-17-1993	Bottomley	
		US- 5263191	11-16-1993	Dickerson	
		US- 5280472	01-18-1994	Gilhausen et al.	
		US- 5305349	04-19-1994	Dent	
		US- 5325394	06-28-1994	Bruckert	
		US- 5343493	08-30-1994	Karimullah	
		US- 5343496	08-30-1994	Honig et al.	
		US- 5347535	09-13-1994	Karasawa et al.	
		US- 5353302	10-04-1994	Bi	
		US- 5386202	01-31-1995	Cochran et al.	
		US- 5390207	02-14-1995	Fenton et al.	
		US- 5394110	02-28-1995	Mizoguchi	
		US- 5396256	03-07-1995	Chiba et al.	
		US- 5437055	07-25-1995	Wheatley III	

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/EB/		DE 4343959 A1	06-29-1995	Rohrer-Hausmann GmbH & Co.		
/EB/		WO 93/12590	06-24-1995	Array-Comm, Inc.		822941
/EB/		GB 2280575 A	02-01-1995	Roke Manor Research Limited		844244

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Sheet 3

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Application Number 10/773.777

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First Named Inventor	Anand P. Narayan
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Attorney Docket Number	TCOM-0006
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/EB/		US- 5440265	08-08-1995	Cochran et al.	
		US- 5448600	09-05-1995	Lucas	
		US- 5481570	01-02-1996	Winters	
		US- 5506865	04-09-1996	Weaver Jr.	
		US- 5513176	04-30-1996	Dean et al.	
		US- 5533011	04-02-1996	Dean et al.	
		US- 5553098	09-03-1996	Cochran et al.	
		US- 5602833	02-11-1997	Zehavi	
		US- 5644592	07-01-1997	Divsalar	
		US- 5736964	04-07-1998	Ghosh et al.	
		US- 5787130	07-28-1998	Kotzin et al.	
		US- 5844521	12-01-1998	Stephens et al.	
		US- 5859613	01-12-1999	Otto	
		US- 5872540	02-16-1999	Casabona	
		US- 5872776	02-16-1999	Yang	
		US- 5926761	07-20-1999	Reed et al.	
		US- 5930229	07-27-1999	Yoshida et al.	
/EB/		US- 5953369	09-14-1999	Suzuki	

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**Examiner
Signature**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4

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Attorney Docket Number TCOM-0006

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Application Number 10/773,777

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First Named Inventor **Anand P. Narayan**

Art Unit

Examiner Name

U. S. PATENT DOCUMENTS

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/EB/		Number-Kind Code ^{2, 12 (US/CA)}			
		US- 5995499	11-30-1999	Hottinen et al.	
		US- 6002727	12-14-1999	Uesugi	
		US- 6014373	01-11-2000	Schilling et al.	
		US- 6018317	01-25-2000	Dogan et al.	
		US- 6088383	07-11-2000	Suzuki et al.	
		US- 6101385	08-08-2000	Monte et al.	
		US- 6104712	08-15-2000	Robert et al.	
		US- 6115409	09-05-2000	Upadhyay et al.	
		US- 6127973	10-03-2000	Choi et al.	
		US- 6131013	10-10-2000	Bergstrom et al.	
		US- 6137788	10-24-2000	Sawahashi et al.	
		US- 6141332	10-31-2000	Lavaen	
		US- 6154443	11-28-2000	Huang et al.	
		US- 6157685	12-05-2000	Tanaka et al.	
		US- 6157842	12-05-2000	Kaisson et al.	
		US- 6157847	12-05-2000	Buehrer et al.	
		US- 6163696	12-19-2000	Bi et al.	
		US- 6166690	12-26-2000	Lin et al.	

FOREIGN PATENT DOCUMENTS

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**Examiner
Signature**

/Emmanuel Bayard/ (04/10/2007)

Date

Considered

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Sheet 7

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Application Number	10/773,777
Filing Date	Feb. 6, 2004
First Named Inventor	Anand P. Narayan
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/EB/		US- 6380879	04-30-2002	Kober et al.	
		US- 6396804	05-28-2002	Odenwalder	
		US- 6430216	08-06-2002	Kober et al.	
		US- 6459693	10-01-2002	Park et al.	
		US- 20010003443	06-14-2001	Velazquez et al.	
		US- 20010020912	09-13-2001	Naruse et al.	
		US- 20010021646	09-13-2001	Antonucci et al.	
		US- 20010046266	11-29-2001	Rakib et al.	
		US- 20020001299	01-23-2002	Petch et al.	
		US- 20020172173	11-21-2002	Schilling et al.	
		US- 20030053526	03-20-2003	Reznik	
		US- 6285861	09-04-2001	Bonaccorso et al.	
		US- 3742201	06-26-1973	Groginsky	
		US- 4713794	12-15-1987	Byington et al.	
		US- 5377183	12-27-1994	Dent	
		US- 20020051433	05-02-2002	Affes et al.	
		US- 5894500	04-13-1999	Bruckert et al.	
		US- 6404760	06-11-2002	Holtzman et al.	

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Examiner Signature	/Emmanuel Bayard/ (04/10/2007)	Date Considered	
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Application Number	10/773,777
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<div>EB/</div> <div></div> <div>EB/</div>		US-6584115	06-24-2003	Suzuki	
		US-6266529	07-24-2001	Chheda	
		US-5978413	11-02-1999	Bender	
		US-6590888	07-08-2003	Ohshima	
		US-20020176488	11-28-2002	Kober et al.	
		US-6032056	02-29-2000	Reudink	
		US-4601046	07-15-1986	Halpern	
		US-6515980	02-04-2003	Bottomley	
		US-6574,270	06-03-2003	Madkour	
		US-6798737	09-28-2004	Dabak	
		US-6501788	12-31-2002	Wang	
		US-6801565	10-05-2004	Bottomley	
		US-6404760	06-11-2002	Holtzman	
		US-6385264	05-07-2002	Terasawa	
		US-6680727	01-20-2004	Butler	
	US-6570909	05-27-2003	Kansakoski		
	US-6580771	06-17-2003	Kenney		
	US-6363104	03-26-2002	Bottomley		

FOREIGN PATENT DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/EB/		MITRA, ET AL., Adaptive Decorrelating Detectors for CDMA Systems, Accepted for Wireless Communications Journal, Accepted May 1995	
		SCHNEIDER, Optimum Detection of Code Division Multiplexed Signals, IEEE Transactions on Aerospace and Electronic Systems, Jan. 1979, Vol. AES-15 No. 1	12
		MITRA, ET AL., Adaptive Receiver Algorithms for Near-Far Resistant CDMA, IEEE Transactions of Communications, Apr. 1995	
		LUPAS, ET AL. Near-Far Resistance of Multiuser Detectors in Asynchronous Channels, IEEE Transactions on Communications, April 1990, Vol. 38, No. 4	
		LUPAS, ET AL., Linear Multiuser Detectors for Synchronous Code-Division Multiple-Access Channels, IEEE Transactions on Information Theory, Jan. 1989, Vol. 35, No. 1	
		KOHNO, ET AL., Cancellation Techniques of Co-Channel Interference in Asynchronous Spread Spectrum Multiple Access Systems, May 1983, Vol. J 56-A. No. 5	
		GARG, ET AL., Wireless and Personal Communications Systems, 1996, pgs. 79-151, Prentice Hall, Upper Saddle River, NJ, US	
		CHENG, ET AL., Spread-Spectrum Code Acquisition in the Presence of Doppler Shift and User Mislocation, IEEE Transactions on Communications, Feb. 1990, Vol. 38, No. 2	
		BEHRENS ET AL., Parameter Estimation in the Presence of Low Rank Noise, pgs. 341-344, Maple Press, 1988	
/EB/		BEST, Phase-Locked Loops - Design, Simulation, and Applications, pgs. 251-287, McGraw-Hill, 1999	

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First Named Inventor Anand P. Narayan

Art Unit

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/EB/		ILTIS, Multiuser Detection of Quasisynchronous CDMA Signals Using Linear Decorrelators, IEEE Transactions on Communications, Nov. 1996, Vol. 44, No. 11	
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/Emmanuel Bayard/ (04/10/2007)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/773,777
Filing Date	Feb. 6, 2004
First Named Inventor	Anand P. Narayan
Art Unit	
Examiner Name	
Attorney Docket Number	TCOM-0006

Sheet 11 of 12

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/EB/		KAPLAN, Understanding GPS - Principles and Applications, 1996, pgs. 83-236, Artech House, Norwood, MA, US	
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Application Number	10/773,777
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Filing Date Feb. 6, 2004

First Named Inventor	Anand P. Narayan
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Art Unit

Examiner Name

Sheet	12	of	12
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Attorney Docket Number TCOM-0006

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Examiner Signature: /Emmanuel Bayard/ (04/10/2007)

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